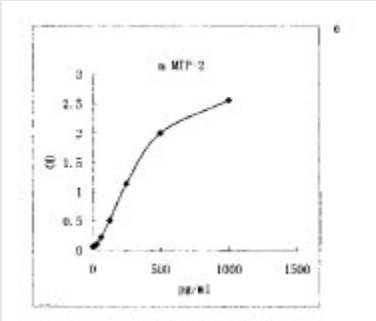
MIP-2 ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	MIP-2, ELISA Kit
Full Product Name	Mouse MIP-2 ELISA KIT
Product Gene Name	MIP-2 elisa kit
Product Synonym Names	Mouse MIP-2
Species Reactivity	Mouse
Assay Type	Quantitative Sandwich
Samples	Cell culture supernates, serum, and plasma
Detection Range	15.6 pg/ml - 1000 pglml
Sensitivity	7pg/mL.
Specificity	This assay recognizes both natural and recombinant mouse MIP-2. The factors listed below were prepared at 50nglml in Standard Isample Diluent and assayed for cross-reactivity and no significanl cross-reactivily or interference was observed.
Preparation and Storage	Store at 4 degree C
Related Product Information for MIP-2 elisa kit	Principle of the Assay: This assay employs Ihe quantitative sandwich enzyme immunoassay technique. A monoclonal antibody specific for MIP-2 has been pre-coated onto a microplate. Standards and samples are pipelted into the wells and any MIP-2 present is bound by the immobilized antibody. Following incubation unbound samples are removed during a wash step, and then a detection antibody specific for MIP-2 is added to the wells and binds to the combination of capture antibody-MIP-2 in sample. Following a wash to remove any unbound combination, and enzyme conjugate is added to the wells. Following incubation and wash steps a substrate is added. A coloured product is formed in proportion to the amount of MIP-2 present in the sample. The reaction is terminated by addition of acid and absorbance is measured at 450nm. A standard curve is prepared from seven MIP-2 standard dilutions and MIP-2 sample concentration determined. Background/Introduction: Mouse macrophage inflammatory protein-2 (MIP-2), also known as CXCL2. was originally identified as a heparin-binding protein secreted by an LPS-stimulated mouse macrophage cell line (1). A cDNA clone encoding the protein was isolated from this cell line and characterized (2). Based on its protein and DNA sequences. mouse MIP-2 was classified as a member of the alpha (CXC) chemokine family of inflammatory and immunoregulatory cytokines (3). Mouse MIP-2 cDNA encodes a 100 amino acid residue precursor protein from which the amino-terminal 27 amino acid residues are cleaved to generate the mature mouse MIP-2. The protein sequence of mouse MIP-2 shows approximately 63% identity to that of mouse KC. another mouse alpha chemokine. Mouse MIP-2 is also 60% identical to human GRO and GRO (2). Based on these protein sequence similarities, it is likely that mouse KC and MIP-2 are homologs of human GRO, and chemokines. Since chemokines with protein sequence homology to human IL-S have not been identified in mice, it has been suggested that the mouse KC and MIP-2 are functional homologs of human IL-8 in mice (3. 4). A putative mouse homolog of the human IL-S receptor beta (IL-8 R) has also been cloned. This receptor shows 71% identity to human IL-8 Rand 68% identity to human IL-8 R . Both mouse KC and MIP-2 bind mouse IL-8 R with high affinity (5). Like human IL-8, mouse MIP-2 exhibits potent neutrophil chemotactic activity and may be a key mediator of neutrophil recruitment in response to tissue injury and infection (3, 4). Increased MIP-2 expression has been found to be associated with neutrophil influx in various inftammatory conditions (6 - 10).
Other Notes	Small volumes of MIP-2 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for MIP-2 purchase	MBS9424852 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the MIP-2, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing MIP-2. The ELISA analytical biochemical technique of the MBS9424852 kit is based on MIP-2 antibody-MIP-2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect MIP-2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, MIP-2. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of MIP-2 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MIP-2. It may not necessarily be applicable to this product.

NCBI GI #	298582
NCBI Accession #	AAB25756.1
NCBI Official Full Name	macrophage inflammatory protein 2, MIP-2 {N-terminal}
Protein Family	Mitochondrial intermediate peptidase
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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